

OIB - Other: GV 09/22/15 Science Report

Aircraft:

Other: GV

Date:

Tuesday, September 22, 2015

Mission:

OIB

Mission Location:

Punta Arenas, Chile

Mission Summary:

OIB Antarctica 2015 Sea and land Ice, Science Flight1 9/22/15

LVIS and DMS on the GV.

Target Area: Thwaites-Smith-Kohler (TSK) glaciers, with sea ice and land ice data collected en route

LVIS and DMS data collected en route to TSK area over sea ice with good coverage from ~S66.5.
Return data collection from TSK area back to Punta Arenas substantially more patchy, but data still collected.

Land ice data collected from Abbott area to TSK and back with final coverage of ~99%. In TSK region, eight grid lines surveyed, repeating and widening previous OIB data swaths. Data from glaciers on mainland Chile also recorded, including center line swath along Garibaldi glacier.

Calibration maneuvers performed during flight and prior to landing at Punta Arenas.

All instruments operated normally.

Data collected:

DMS - 13G

LVIS - 200G

Submitted by:

Michelle Hofton on 09/23/15

Related Flight Report:

Other: GV 09/22/15

Flight Number:

7

Payload Configuration:

OIB-2015

Nav Data Collected:

No

Total Flight Time:

10.5 hours

Submitted by:

Pavel Romashkin on 09/22/15

Flight Segments:

From:	SCCI	To:	SCCI
Start:	09/22/15 13:02 Z	Finish:	09/22/15 23:24 Z
Flight Time:	10.5 hours		
Log Number:	15M046	PI:	John Woods
Funding Source:	Bruce Tagg - NASA - SMD - ESD Airborne Science Program		
Purpose of Flight:	Science		

Comments:

RF01 Antarctic research flight, Thwaites area. Take off was delayed by one hour due to frost accumulation on the GV wings and tail, caused by unusually calm conditions: there was literally no wind in the morning. All instruments performed well, good data collection. No issues with the aircraft.

Flight Hour Summary:

	15M046	16M026
Flight Hours Approved in SOFRS	180	15
Flight Hours Previously Approved		109.5
Total Used	62.7	148.1
Total Remaining		-23.6

16M026 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining
10/01/15	11	Science	1.8	1.8	122.7
10/03/15	12	Science	10.8	12.6	111.9
10/05/15	13	Science	11	23.6	100.9
10/07/15	14	Science	10.3	33.9	90.6
10/10/15	15	Science	10.5	44.4	80.1
10/12/15	16	Science	10.8	55.2	69.3
10/14/15 - 10/15/15	17	Science	9.3	64.5	60
10/17/15	17	Science	11.8	76.3	48.2
10/19/15	18	Other	2.2	78.5	46
10/20/15	19	Science	10.8	89.3	35.2
10/22/15	20	Science	10.9	100.2	24.3
10/25/15	21	Science	10.2	110.4	14.1
10/27/15 - 10/28/15	22	Science	11.1	121.5	3
10/29/15	23	Science	10	131.5	-7
10/31/15	24	Other	2.2	133.7	-9.2
11/01/15	25	Other	5.1	138.8	-14.3
11/02/15 - 11/03/15	26	Other	9.3	148.1	-23.6

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Flight Reports began being entered into this system as of 2012 flights. If there were flights flown under an earlier log number the flight reports are not available online.

15M046 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining
09/10/15	1	Check	4	4	176
09/11/15	2	Check	2.8	6.8	173.2
09/11/15 - 09/12/15	3	Check	1.7	8.5	171.5
09/17/15	4	Check	3.7	12.2	167.8
09/18/15	5	Transit	2.1	14.3	165.7
09/18/15 - 09/19/15	5	Transit	7.8	22.1	157.9
09/19/15	6	Transit	6.7	28.8	151.2
09/22/15	7	Science	10.5	39.3	140.7
09/24/15	8	Science	11	50.3	129.7
09/26/15	9	Science	9.8	60.1	119.9
09/29/15	10	Science	10.4	70.5	109.5